

Product Information Sheet

G359 Gamborg (PRL-4-DM) Long Basal Medium

Synonym: Gamborg B-5 Long Basal Medium

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	2.64 g/L
Storage Temp:	2 – 6° C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the macro- and micronutrients as described by Gamborg (1966).

Formula (mg/L)

Ammonium Sulfate	200
Boric Acid	3
Calcium Chloride, Anhydrous	113.24
Cobalt Chloride·6H ₂ O	0.25
Cupric Sulfate·5H ₂ O	0.25
Na ₂ EDTA·2H ₂ O	186
Ferrous Sulfate·7H ₂ O	139
Magnesium Sulfate, Anhydrous	122.09
Manganese Sulfate·H ₂ O	132
Molybdc Acid (Sodium Salt)·2H ₂ O	0.25
Potassium Chloride	300
Potassium Iodide	0.75
Potassium Nitrate	1000
Sodium Phosphate Monobasic	90
Zinc Sulfate·7H ₂ O	3
p-Aminobenzoic Acid	0.2
L-Arginine (Free Base)	40

L-Ascorbic Acid	0.4
Asparagine	40
Biotin	0.00025
Choline Chloride	0.2
Folic Acid	0.015
L-Glutamine	60
Glycine (Free Base)	20
myo-Inositol	100
L-Methionine	30
Nicotinic Acid (Free Acid)	0.5
D-Pantothenic Acid, Calcium	0.4
L-Phenylalanine	20
Pyridoxine·HCl	0.5
Riboflavin	0.015
Thiamine·HCl	0.5
L-Tryptophan	40

Application Notes

Plant Tissue Culture

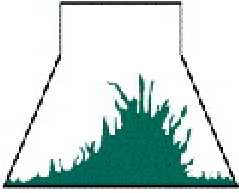
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References

Gamborg, OL, 1966. Aromatic metabolism in plants. II. Enzymes of the shikimate pathway in suspension cultures of plant cells. *Can. J. Biochem.* 44: 791-799.

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